



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

C3-2-1
Job Sheet 175632



Part No: C3-2-1

Job Qty: 20 ea

Part Name: Side Plate C-3 Hook



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 4/9/18

Job Tracking No:

Created By: Marie Lajeunesse

Due Date: 6/8/18

Description:

Type: SOLD

Note: DWG C2-2-1 Rev 11 IPP Rev A 18.04.06 new issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	20 Ea	6/8/18	6/8/18	0.00	0.00	Start Up Waterjet2		J.C.-L
100	Bandsaw	20 pcs	6/8/18	6/8/18	0.00	2.00	Bandsaw1		J.C.-L
120	CNC Vertical Machining	20 pcs	6/8/18	6/8/18	1.50	40.00	MORI NV5000-1		J.C.-L
130	QC	20 pcs	6/8/18	6/8/18	0.00	0.00	QC2 Machining-5		J.C.-L
140	QC	20 pcs	6/8/18	6/8/18	0.00	0.00	QC8 Machining-5		J.C.-L
150	Outsource	20 pcs	6/8/18	6/8/18	0.00	0.00	Outsource4		J.C.-L
160	Packaging	20 pcs	6/8/18	6/8/18	0.00	0.00	Packaging2		J.C.-L
170	QC	20 pcs	6/8/18	6/8/18	0.00	0.00	QC6		J.C.-L
180	Small Fab	20 pcs	6/8/18	6/8/18	0.00	2.00	Small Fab-3		J.C.-L
190	QC	20 pcs	6/8/18	6/8/18	0.00	0.00	QC5		J.C.-L
200	Packaging	20 pcs	6/8/18	6/8/18	0.00	0.00	Packaging3-2		J.C.-L
210	QC21-FG	20 Ea	6/8/18	6/8/18	0.00	0.00	QC21		J.C.-L

Part Op 100 - Cut blanks to 7.10"

Descriptions: 120 - 1-Machine as per folio FC074 FOLIO REV: A4 DWG REV: 11 2-Deburr
150 - Issue P/O to GROUPE ALTECH: 204624 -ANODIZE COLOR BLACK, PER IAW MIL-A-8625F TYPE 2
CLASS 2, Water sealant -Certificate of Conformity is required

160 - Receive

180 - Fill groves with white paint as per note 2

200 - Identify and Stock

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M6061T6S0.750X06.500	6061T6 Sheet 0.750 X 6.500	11.8200 ft (.591 ea)	90-Start up Operation	5066321

Job Allocations

Component Part	Required	Inventory	Allocated
31T6S0.750X06.500	12	12	0

Part Specifications

Specifications could not be found.

Plex 5/29/18 11:38 AM Dart.lajeunesse.marie



Container No: S077290



Part: C3-2-1

Job No: 175632

Serial No/Batch: S077290

Revision: 11

Inspector:

Exp Date: 06/02/2018

Instructions:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 06/02/18

DART AEROSPACE LTD		Work Order:	175632
Description: Side Plate		Part Number:	C3-2-1
Inspection Dwg: C3		Rev: 11	Page 1 of 1

INSPECTION SHEET

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
-5.456	± 0.005	-5.456	✓			
3.200	± 0.005	3.200	✓			
Ø 0.1882	± 0.005	0.1882	✓			
-5.356	± 0.005	-5.356	✓			
1.628	± 0.005	1.628	✓			
Ø 0.250	± 0.005	0.252	✓			
-5.242	± 0.005	-5.242	✓			
4.452	± 0.005	4.452	✓			
Ø 0.386	± 0.005	0.388	✓			
-5.233	± 0.005	-5.233	✓			
-0.160	± 0.005	-0.160	✓			
Ø 0.4684	± 0.005	0.4686	✓			
Ø 0.684	± 0.005	0.684	✓			
± 0.418	± 0.005	0.417	✓			
-4.162	± 0.005	-4.162	✓			
1.745	± 0.005	1.745	✓			
Ø 0.5000	± 0.005	0.5002	✓			
1.670	± 0.005	0.672	✓			
± 0.376	± 0.005	0.379	✓			
-2.686	± 0.005	-2.686	✓			
3.551	± 0.005	3.551	✓			
Ø 0.4684	± 0.005	0.4686	✓			
± 0.583	± 0.005	0.586	✓			
-1.645	± 0.005	-1.645	✓			
3.625	± 0.005	3.625	✓			
Ø 0.625	± 0.005	0.626	✓			
1.7518	± 0.005	0.7518	✓			
± 0.574	± 0.005	0.583	✓			

Measured by: J.C.L.	Checked by:	QC Inspector:
Date: 8-06-02	Date: 18/06/06	Date:

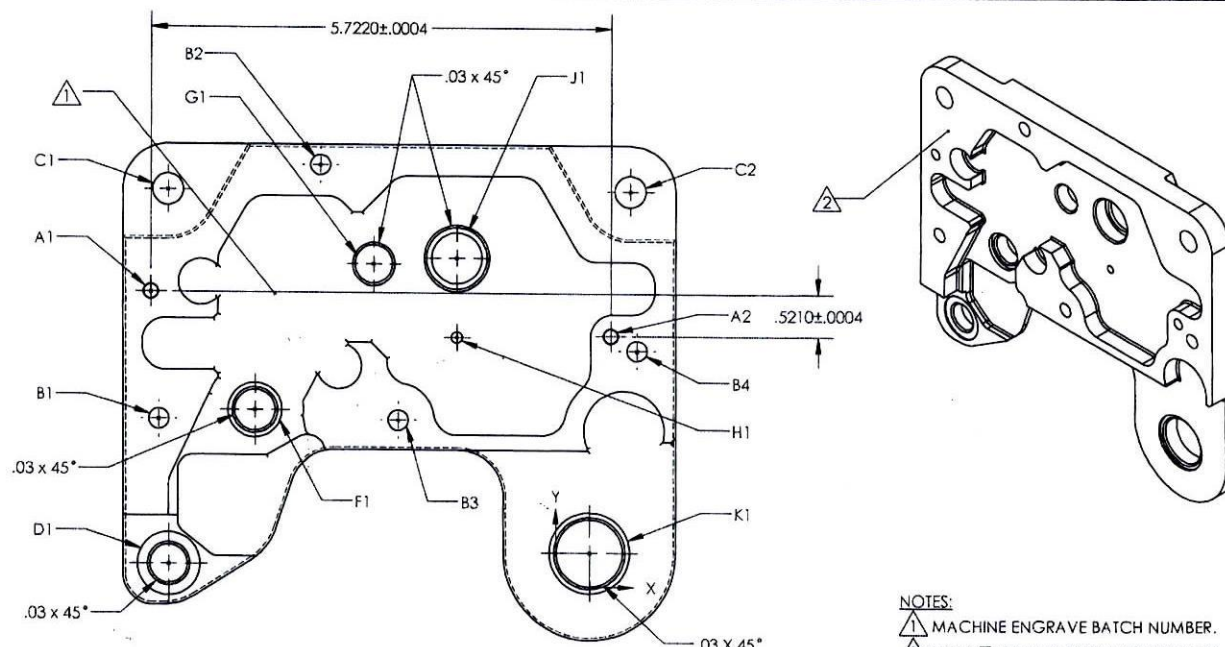
Engineering Approval: (If necessary)	Date:
--	--------------

Rev	Date	Change	Revised by	Approved
A	14.07.31	New Issue	KJ	

This drawing, specifications, and concepts contained herein are the sole property of DART Aerospace and may not be reproduced or used in any fashion without the prior written permission of DART Aerospace Eugene, OR

REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
5		AS DRAWN BY CANAM.	8/7/2012	
6		CHD D1 Ø.4695 TO .4691 +.4684 F1 TOL FROM +.0005 TO +.0004, G1 Ø.470 TO .4684 +.4691, J1 Ø.758 TO Ø.7518 +.0005 SMT 2. ADDED ENGRAVE NOTE.	8/8/2012	JAG
7		CHD A1 & A2 HOLE SIZE FROM .156 TO Ø.177, SMT 2 REMOVED DIM 1.265 (DOUBLE DIMENSION)	11/8/2012	JAG
8	14-0107	CHD TITLE BLOCK WAS RED BARN B DART. ADDED MACHINE ENGRAVE NOTE. CHD TOLERANCE NON-CRITICAL DIMENSIONS. DELETED SHEET 3. ADDED DIMENSION 1.39 SHEET 2.	8/6/2014	DJN RW
9	14-0203	DELETED Ø.104 HOLES E1 & E2. ADDED LASER ENGRAVING. LASER ENGRAVING NOTES, DETAILS D & E.	10/31/2014	DPD JAG
10	15-0249	UPDATED TO NEW DRAFTING STANDARDS. CHD ALL HOLE TO BE CALLED FROM SAME SURFACE. D1 WAS Ø.022 B .415, F1 WAS Ø.063 +.004 -.000, G1 WAS Ø.27C +.003 -.000 B .583 +.003 -.000, H1 WAS Ø.20 B .51, J1 WAS Ø.266 +.004 -.000 B .579 +.004 -.000, K1 WAS Ø.040 +.003 -.000 B .333 +.003 -.000. ADDED HOLE NOTE. DELETED ENGRAVING DETAILS & NOTES FOR PART LOCO, P/N S/N, "MADE IN USA" & CAUTION NOTE & RELATED DIMS. CHD DIM WAS .643 +.004 -.000 B .643. DELETED UNNECESSARY DIMS. CHD TOLERANCE ON NON-CRITICAL DIMENSIONS.	8/27/2015	DPD JAG
11	17-0118	UPDATED TO NEW STANDARDS. CHD DIM WAS Ø.177 THRU ALL L J Ø.1885 +.0025/- .0000 Ø.550 B Ø.177 THRU ALL L J Ø.1882 +.0005/- .0000 Ø.550, REMOVED DIM 260, 2.679 ADDED DIM 5.7220 ±.0004.	5/11/2017	SM JAG

TAG	X LOC	Y LOC	SIZE
A1	-5.456	3.200	Ø .177 THRU ALL + .0005 - .0000
A2			Ø .1882 - .0000
B1	-5.356	1.628	Ø .250 +.005 - .000 THRU ALL
B2	-3.353	4.765	
B3	-2.383	1.628	
B4	.592	2.496	
C1	-5.242	4.452	Ø .386 THRU ALL
C2	.508	4.452	
D1	-5.233	-1.160	Ø .4691 Ø .4684 THRU ALL Ø .781
F1	-4.162	1.745	Ø .5000 +.0004 - .0000 THRU ALL Ø .670
G1	-2.686	3.551	Ø .4691 Ø .4684
H1	-1.645	2.654	Ø .136
J1	-1.645	3.625	Ø .625 THRU ALL Ø .7518 +.0000 Ø .579 +.004 - .0000
K1	.000	.000	Ø .825 +.0005 - .0000 THRU ALL Ø 1.000



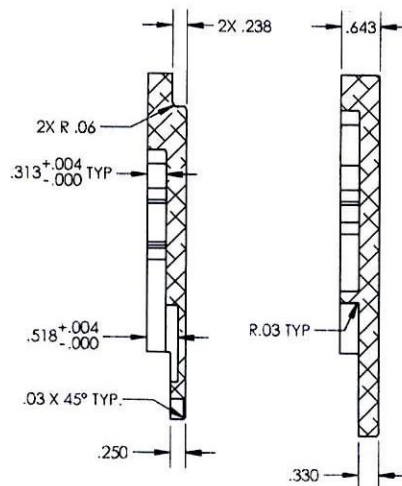
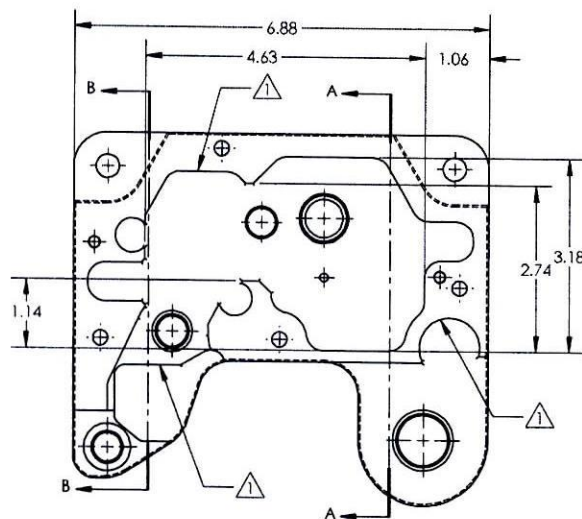
- NOTES:
- MACHINE ENGRAVE BATCH NUMBER.
 - HOLE CALLED FROM THIS SURFACE.

DART AEROSPACE	
TITLE SIDE PLATE C3-HOOK	
DWG NO. C3-2-1	REV 11
MATL: 6061-T6	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FINISH: BLACK ANODIZE	XXX ±.005 FRACTIONS ± 1/8
SPEC: MIL-A-8625, TYPE II, CLASS II	XX .01 ANGLES 45°
DRAWN BY: CANAM	X ±.1 SURFACES ± 125
CHECKED: RJC 05/11/2017	1. BREAK ALL SHARP EDGES
QAPP APPR: AA 05/17/2017	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
QAPP APPR: JAG 05/24/2017	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
APPROVED: JAG 05/25/2017	USED ON MODEL
SCALE: 2:3	DATE: 11/15/2001
SHEET 1 OF 2	

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			C3-2-1	1	SIDE PLATE	6061-T6		

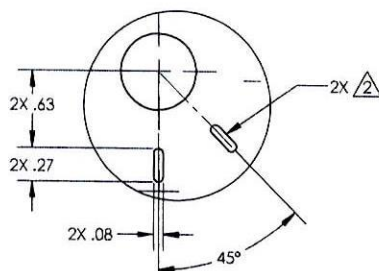
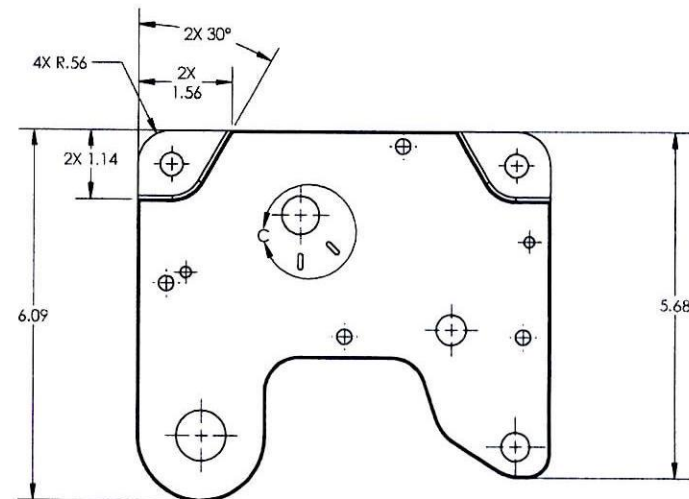
This drawing, specification, and concepts contained herein are the sole property of Dart Aerospace and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REV	ECR	REVISIONS	DATE	INITIAL	APPROVED
5		ADDED ENGRAVE NOTE	8/15/2012	JAG	
7		REMOVED DIM 1.265 (DOUBLE DIMENSION)	11/8/2012	JAG	
8	14-0107	ADDED DIMENSION 1.39	8/6/2014	DJH	RW
9	14-0203	ADDED LASER ENGRAVING, LASER ENGRAVING NOTES: DETAILS D & E	10/31/2014	DPD	JAG
10	15-0249	DELETED ENGRAVING DETAILS & NOTES FOR DART LOGO: P/N, S/N, "MADE IN USA," & CAUTION NOTE & RELATED DIMS. CHFD DIM WAS .643 ± .004 ± .000 B .643. DELETED UNNECESSARY DIMS.	8/27/2015	DPD	JAG



SECTION B-B

SECTION A-A



DETAIL C
SCALE 1:1

NOTES:

- USE DXF PROFILE FOR POCKET DETAILS
- LASER ETCH, OR MACHINE ENGRAVE & FILL WITH INK. DECIDE @ TIME OF MACHINING PER RW.
- SOME HIDDEN LINES OMITTED FOR CLARITY.

DART AEROSPACE	
TITLE SIDE PLATE C3-HOOK	
DWG NO. C3-2-1	REV 11
MATERIAL: 6061-T6	
FINISH: BLACK ANODIZE	
SPEC: MIL-A-8625, TYPE II, CLASS II	
DRAWN BY: CANAM	
CHECKED: RJC 05/11/2017	
DWG APPR: JAG 05/17/2017	
QA APPR: JL 05/24/2017	
APPROVED: JAG 05/25/2017	
SCALE: 1:2	DATE: 11/15/2001
SHEET 2 OF 2	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO040124**

Supplier: GRO002-VC
Group Altech
2455 Halpern
St Laurent
QC
H4S 1N9 Canada
Phone: 514-335-3666
Fax: 514-335-3868

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO040124
PO Date: 6/6/18
Due Date: 6/8/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Tsimiklis, ChrisoulaPhone:

Via: Ground
Pynt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	175632	C3-2-1	Side Plate C-3 Hook -Issue P/O to GROUPE ALTECH: -ANODIZE COLOR BLACK, PER IAW MIL-A-8625F TYPE 2 CLASS 2, Water sealant -Certificate of Conformity is required	Firmed	6/8/18	20 pcs	0 pcs 204	20 pcs	\$6.00/pcs	\$120.00
Grand Total:										\$120.00

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/7/18 10:15 AM dart.tsimiklis.chrisoula



Certificat de Conformité / Certificate of Compliance

(010084-1)

2455, Rue Halpern | Saint-Laurent | Québec | H4S 1N9
 Tel: 514-335-3666 Fax: 514-335-3868
 www.groupaltech.com

Bon de Livraison / Packing Slip

010084 - 1

Livré à / Ship to

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKESBURY, ON, K6A1K7
 CANADA
 Tel.: 613-632-5200 Fax.:

Client / Customer:

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKESBURY, ON, K6A1K7
 CANADA
 BUYER:

Date expédition Ship date		Créé Par Generated By	Transport / No de Compte Courier / Acc. No.	Bon de commande Client Customer Purchase Order No.				
11-Jun-2018		Aman		040124				
#Ligne Line#	No. de Série / # Pièce Part Number / Line Item Details Job # / Ref #	Description pièce(s)	CATG. U/M	Comm. /Ordered	Exp/ Shipped	Qté NC/ NC Qty	Qté Scrap/	À venir/ Back Order
1	C3-2-1 Rev.	C3-2-1 01-ANO-BLACK [ANODIZE BLACK] MIL-A-8625F TYPE 2 CLASS 2	ANODIZE CH	20	20	0	0	0

Notes Additionnelles / Additional Notes

 Epaisseur réelle
Actual Thickness

 Inspecteur Qualité
Quality Inspector

 Réçu par
Received By

Nous certifions que les pièces énumérées ci-dessus ont été traitées en conformité avec votre commande et vos spécifications et rencontrent les exigences.
 Notre responsabilité financière et légale ne sera pas supérieure au montant de la facture issue.

We hereby certify that the parts listed above have been process in accordance with your purchase order and specifications and are in conformance with your requirements.
 Our financial and legal responsibility will not be higher than the amount of invoice.



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

C3-2-1
Job Sheet 175632



Split 18
X

Part No: C3-2-1

Job Qty: 20 ea

Part Name: Side Plate C-3 Hook



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 4/9/18

Job Tracking No:

Due Date: 6/8/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG C2-2-1 Rev 11 IPP Rev A 18.04.06 new issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	20 Ea		6/8/18	0.00	0.00	Start Up Waterjet2		J.C.-2
100	Bandsaw	20 pcs		6/8/18	0.00	2.00	Bandsaw1		J.C.-6
120	CNC Vertical Machining	20 pcs		6/8/18	1.50	40.00	MORI NV5000-1		J.C.-6
130	QC	20 pcs		6/8/18	0.00	0.00	QC2 Machining-5		J.C.-6 18-06-03
140	QC	20 pcs		6/8/18	0.00	0.00	QC8 Machining-5		18/06/06
150	Outsource	20 pcs		6/8/18	0.00	0.00	Outsource4		18-6-6
160	Packaging	20 pcs		6/8/18	0.00	0.00	Packaging2		18/06/11
170	QC	20 pcs		6/8/18	0.00	0.00	QC6		
180	Small Fab	20 pcs		6/8/18	0.00	2.00	Small Fab-3		
190	QC	20 pcs		6/8/18	0.00	0.00	QC5		
200	Packaging	20 pcs		6/8/18	0.00	0.00	Packaging3-2		
210	QC21-FG	20 Ea		6/8/18	0.00	0.00	QC21		

Part Op 100 - Cut blanks to 7.10"

Descriptions: 120 - 1-Machine as per folio FC074 FOLIO REV: A4 DWG REV: 1 2-Deburr

150 - Issue P/O to GROUPE ALTECH: 004624 -ANODIZE COLOR BLACK, PER IAW MIL-A-8625F TYPE 2

CLASS 2, Water sealant -Certificate of Conformity is required

160 - Receive

180 - Fill groves with white paint as per note 2

200 - Identify and Stock

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M6061T6S0.750X06.500	6061T6 Sheet 0.750 X 6.500	11.8200 ft (.591 ea)	90-Start up Operation	5060321

Job Allocations

Component Part	Required	Inventory	Allocated
6061T6S0.750X06.500	12	12	0

Part Specifications

Specifications could not be found.



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL : 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S077290



Part: C3-2-1

Job No: 175632

Serial No/Batch: S077290

Revision: 11

Inspector:

Exp Date: 06/02/2018

Instructions:

Date: 06/02/18

Plex 5/29/18 11:38 AM Dart.lajeunesse.marie

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

DART AEROSPACE LTD		Work Order:	175632
Description: Side Plate		Part Number:	C3-2-1
Inspection Dwg: C3	Rev: 11	Page 1 of 1	

INSPECTION SHEET

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
-5.456	± 0.005	-5.456	✓			
3.200	± 0.005	3.200	✓			
Ø 0.1882	± 0.005	0.1882	✓			
-5.356	± 0.005	-5.356	✓			
1.628	± 0.005	1.628	✓			
Ø 0.250	± 0.005	0.252	✓			
-5.242	± 0.005	-5.242	✓			
4.452	± 0.005	4.452	✓			
Ø 0.386	± 0.005	0.388	✓			
-5.233	± 0.005	-5.233	✓			
-0.160	± 0.005	-0.160	✓			
Ø 0.4684	± 0.005	0.4686	✓			
Ø 0.688	± 0.005	0.688	✓			
± 0.418	± 0.005	0.417	✓			
± 0.162	± 0.005	-0.162	✓			
1.745	± 0.005	1.745	✓			
Ø 0.5000	± 0.005	0.5002	✓			
⊥ Ø 0.670	± 0.005	0.672	✓			
± 0.376	± 0.005	0.379	✓			
-2.686	± 0.005	-2.686	✓			
3.551	± 0.005	3.551	✓			
Ø 0.4684	± 0.005	0.4686	✓			
± 0.583	± 0.005	0.586	✓			
-1.645	± 0.005	-1.645	✓			
3.625	± 0.005	3.625	✓			
Ø 0.625	± 0.005	0.626	✓			
⊥ Ø 0.7518	± 0.005	0.7518	✓			
± 0.579	± 0.005	0.583	✓			

Measured by: J.C.L.	Checked by: [Signature]	QC Inspector:
Date: 18-06-02	Date: 18/06/06	Date:

Engineering Approval: (If necessary)	Date:
--	--------------

Rev	Date	Change	Revised by	Approved
A	14.07.31	New Issue	KJ	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

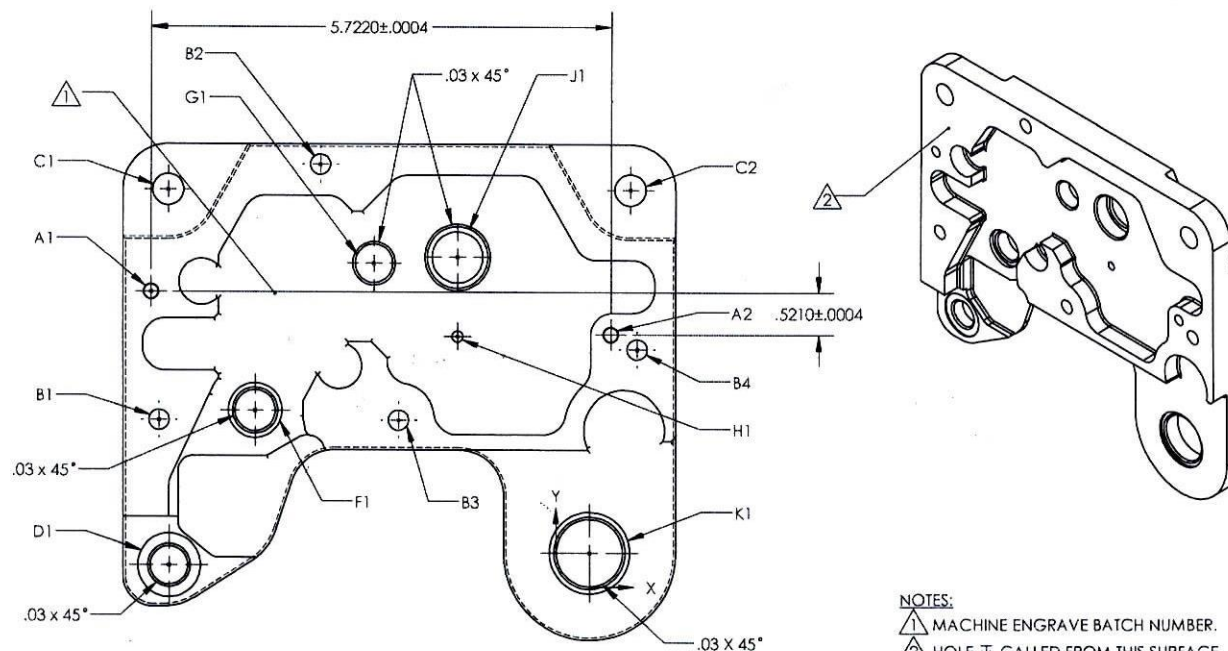
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER :					

This drawing, specifications, and concepts contained herein are the sole property of Dart Aerospace and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR

REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5		AS DRAWN BY CANAM	8/7/2012		
6		CH D 11 Ø .4691 TO .4691 - .4694 F1 TOL FROM .0005 TO +.0004, D1 Ø .470 TO .4664 - .4691, J1 Ø .7520 TO Ø .7518 +0.0/- .0005, SMT 2 ADDED, ENGRAVE NOTE	8/8/2012	JAG	
7		CH D A1 & A2 HOLE SIZE FROM .156 TO Ø .177, SMT 2 REMOVED DIM 1.265 (DOUBLE DIMENSION)	11/6/2012	JAG	
8	14-0107	CH D TITLE BLOCK WAS RED BARN IS DART, ADDED MACHINE ENGRAVE NOTE, CH D TOLERANCE NON-CRITICAL DIMENSIONS, DELETED SHEET 3, ADDED DIMENSION 1.39 SHEET 2	8/6/2014	DJN	PW
9	14-0203	DELETED Ø .104 HOLES E1 & E2, ADDED LASER ENGRAVING, LASER ENGRAVING NOTES, DETAILS D & E	10/31/2014	DPD	JAG
10	15-0249	UPDATED TO NEW DRAFTING STANDARDS, CH D ALL HOLE TO BE CALLED FROM SAME SURFACE, D1 WAS Ø .022 B Ø .415, F1 WAS Ø .083 +.004 - .000, G1 WAS Ø .270 +.003 - .000 B Ø .583 +.003 - .000, H1 WAS Ø .20 B Ø .51, J1 WAS Ø .266 +.004 - .000 B Ø .579 +.004 - .000, K1 WAS Ø .040 +.003 - .000 B Ø .353 +.003 - .000, ADDED HOLE NOTE, DELETED ENGRAVING DETAILS & NOTES FOR DART LOGO, P/N, S/N, MADE IN USA, & CAUTION NOTE & RELATED DIMS, CH D DIM WAS .643 +.004 - .000 B .643, DELETED UNNECESSARY DIMS, CH D TOLERANCE ON NON-CRITICAL DIMENSIONS	8/27/2015	DPD	JAG
11	17-0118	UPDATED TO NEW STANDARDS, CH D DIM WAS Ø .177 THRU ALL, J Ø .1880 +.005/- .0000 Ø .350 B Ø .177 THRU ALL, J Ø .1882 +.0005/- .0000 Ø .350, REMOVED DIM .266, 2.679, ADDED DIM 5.7220 ± .0004, 5.210 ± .0004	5/11/2017	SM	JAG

TAG	X LOC	Y LOC	SIZE
A1	-5.456	3.200	Ø .177 THRU ALL
A2			└┐ Ø .1882 ^{+.0005} _{-.0000} ▽ .550
B1	-5.356	1.628	Ø .250 ^{+.005} _{-.000} THRU ALL
B2	-3.353	4.765	
B3	-2.383	1.628	
B4	.592	2.496	
C1	-5.242	4.452	Ø .386 THRU ALL
C2	.508	4.452	
D1	-5.233	-1.160	Ø .4691 _{-.4684} THRU ALL └┐ Ø .781 ▽ .415
F1	-4.162	1.745	Ø .5000 ^{+.0004} _{-.0000} THRU ALL └┐ Ø .670 ▽ .376 ^{+.004} _{-.000}
G1	-2.686	3.551	Ø .4691 _{-.4684} ▽ .583 ^{+.003} _{-.000}
H1	-1.645	2.654	Ø .136 ▽ .51
J1	-1.645	3.625	Ø .625 THRU ALL └┐ Ø .7518 ^{+.0000} _{-.0005} ▽ .579 ^{+.004} _{-.000}
K1	.000	.000	Ø .825 ^{+.0005} _{-.0000} THRU ALL └┐ Ø 1.000 ▽ .353 ^{+.003} _{-.000}



NOTES:

- △ MACHINE ENGRAVE BATCH NUMBER.
- △ HOLE ▽ CALLED FROM THIS SURFACE.

DART AEROSPACE	
TITLE SIDE PLATE C3-HOOK	
DWG NO. C3-2-1	REV 11
MAT'L 6061-T6 FINISH BLACK ANODIZE SPEC MIL-A-8625 TYPE II CLASS II	
CHECKED: RJC 05/11/2017 DPT APPR: AA 05/17/2017 QA APPR: JL 05/24/2017 APPROVED: JAG 05/25/2017	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES ± 125 1. BREAK ALL SHARP EDGES .015 ± .005 OR .0158 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 USED ON MODEL
SCALE 2:3	DATE 11/15/2001
SHEET 1 OF 2	

ASSY QTY	ASSY QTY	B/C	Part #	UNIT QTY	Description	Material	S/D INFORMATION OR SPECIFICATIONS	PG
			C3-2-1	1	SIDE PLATE	6061-T6		

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

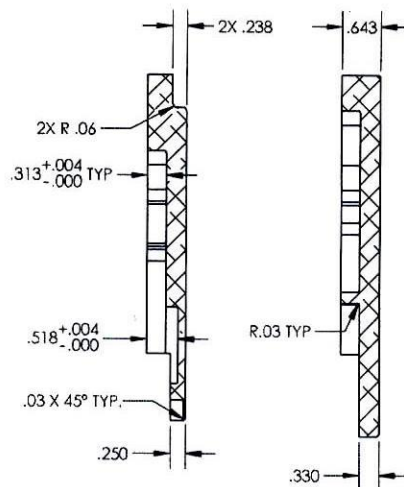
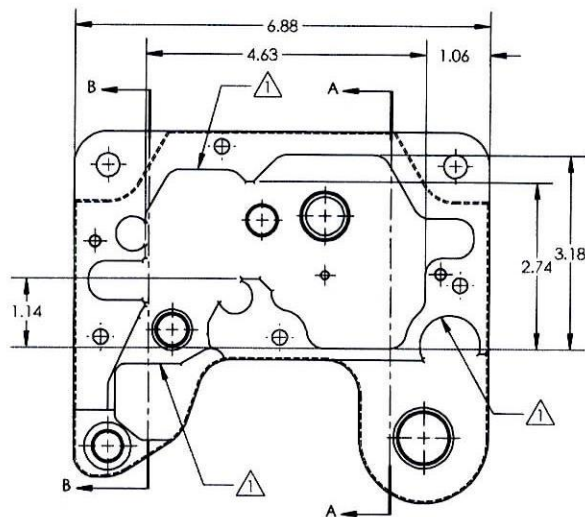
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation		Disposition			
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

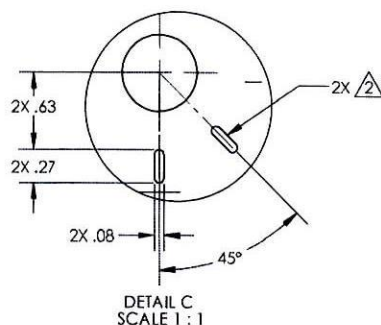
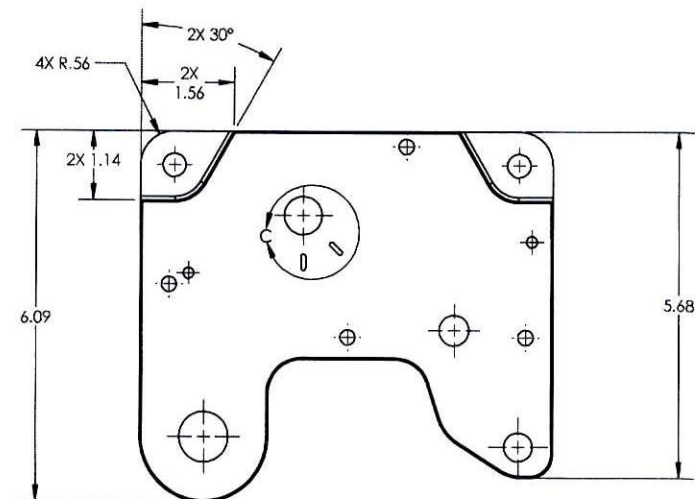
This drawing, specifications, and contents contained herein are the sole property of Dart Aerospace and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
6		ADDED ENGRAVE NOTE	9/15/2012	JAG
7		REMOVED DIM 1.265 (DOUBLE DIMENSION)	11/8/2012	JAG
8	14-0107	ADDED DIMENSION 1.39	8/6/2014	DJN
9	14-0203	ADDED LASER ENGRAVING, LASER ENGRAVING NOTES, DETAILS D & E	10/31/2014	DPD
10	15-0249	DELETED ENGRAVING DETAILS & NOTES FOR DART LOGO, P/N "MADE IN USA," & CAUTION NOTE & RELATED DIMS. CHD DIM WAS .643 ± .004 - .000 IS .643. DELETED UNNECESSARY DIMS.	8/27/2015	DPD



SECTION B-B

SECTION A-A



NOTES:

- USE DXF PROFILE FOR POCKET DETAILS
- LASER ETCH, OR MACHINE ENGRAVE & FILL WITH INK, DECIDE @ TIME OF MACHINING PER RW.
- SOME HIDDEN LINES OMITTED FOR CLARITY.

DART AEROSPACE	
TITLE SIDE PLATE C3-HOOK	
DWG NO. C3-2-1	REV 11
MAT'L: 6061-T6 FINISH: BLACK ANODIZE SPEC: MIL-A-8625, TYPE II, CLASS II	
DRAWN BY: CANAM CHECKED: RJC 05/11/2017 CRP APPR: AA 05/17/2017 QA APPR: JL 05/24/2017 APPROVED: JAG 05/25/2017	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS ± 1/8 DECIMALS ± .01 ANGLES ± 5° SURFACES ± 125/10 1. BREAK ALL SHARP EDGES 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 USED ON MODEL
SCALE: 1:2	DATE: 11/15/2001

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																											
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																																																																												
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																																																																												
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																																																																												
Large Fab ☐	Composite ☐	Supplier ☐																																																																													
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval																																																																											
Description Work Order Deviation			Disposition																																																																												
			Completed By																																																																												
			Lead hand / Supervisor Approval Verification																																																																												
			QC / QA Coordinator Approval																																																																												
<table style="width:100%; border: none;"> <tr> <td colspan="2" style="text-align: center;">Root Cause</td> <td colspan="4" style="text-align: center;">FAULT CATEGORY</td> </tr> <tr> <td style="width:15%;">Environment ☐</td> <td style="width:15%;">No Re-verification ☐</td> <td style="width:15%;">Pressure/Forced ☐</td> <td style="width:15%;">Temperature/Cure ☐</td> <td style="width:15%;">Power Loss/Surge ☐</td> <td style="width:15%;">Positioned Wrong ☐</td> </tr> <tr> <td>Design ☐</td> <td>Operator ☐</td> <td>Bending ☐</td> <td>Set-up ☐</td> <td>Folio/Program ☐</td> <td>Outside Dimensions ☐</td> </tr> <tr> <td>Doc/Data ☐</td> <td>Offset/Setup ☐</td> <td>Centre Not Concentric ☐</td> <td>BOM/Route ☐</td> <td>Grain ☐</td> <td>Over/Under tolerance ☐</td> </tr> <tr> <td>Equip/Tooling ☐</td> <td>Supplier ☐</td> <td>Cracks ☐</td> <td>Broken/Damage/Defect ☐</td> <td>Weld ☐</td> <td>Part Incorrect ☐</td> </tr> <tr> <td>Handling/Pre ☐</td> <td>Training ☐</td> <td>Crimp/Kink/Ripple/Wave ☐</td> <td>Inspection Incomplete/Unqualified ☐</td> <td>Wrong Stock Pulled ☐</td> <td>Part Lost/Missing ☐</td> </tr> <tr> <td>Material ☐</td> <td>Use for Testing ☐</td> <td>Cuffs ☐</td> <td>Contamination ☐</td> <td>Out of Sequence ☐</td> <td>Part Moved ☐</td> </tr> <tr> <td>Internal Transport ☐</td> <td>Poor Information ☐</td> <td>Crushing ☐</td> <td>Countersink ☐</td> <td>Off-set ☐</td> <td>Drawing ☐</td> </tr> <tr> <td>Tribal Knowledge ☐</td> <td>Rushing ☐</td> <td>Heat Treat ☐</td> <td>Cut Too Short ☐</td> <td>Mislabeled ☐</td> <td>Finish ☐</td> </tr> <tr> <td>LOA ☐</td> <td>Product Improvement ☐</td> <td>Wave/Twist in Tube ☐</td> <td>Instructions Incomplete/Unclear ☐</td> <td>Fit/Function ☐</td> <td>Misread ☐</td> </tr> <tr> <td>Substation ☐</td> <td>Process Improvement ☐</td> <td>Marks/Chatter ☐</td> <td>Drill Holes ☐</td> <td>Misaligned/off center ☐</td> <td>Turning Sequence ☐</td> </tr> <tr> <td>Past Expiry Date ☐</td> <td>Manufacturing Process ☐</td> <td colspan="4" rowspan="2" style="vertical-align: top;">OTHER : _____</td> </tr> <tr> <td>Misidentified ☐</td> <td>Past Due ☐</td> </tr> </table>						Root Cause		FAULT CATEGORY				Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____				Misidentified ☐	Past Due ☐
Root Cause		FAULT CATEGORY																																																																													
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																																																																										
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																																																																										
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																																																																										
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																																																																										
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																																																																										
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																																																																										
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																																																																										
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																																																																										
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																																																																										
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																																																																										
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____																																																																													
Misidentified ☐	Past Due ☐																																																																														



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO040124**

Supplier: GRO002-VC
Group Altech
2455 Halpern
St Laurent
QC
H4S 1N9 Canada
Phone: 514-335-3666
Fax: 514-335-3868

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO040124
PO Date: 6/6/18
Due Date: 6/8/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Tsimiklis, Chrisoula
Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	175632	C3-2-1	Side Plate C-3 Hook -Issue P/O to GROUPE ALTECH: -ANODIZE COLOR BLACK, PER IAW MIL-A-8625F TYPE 2 CLASS 2, Water sealant -Certificate of Conformity is required	Firmed	6/8/18	20 pcs	0 pcs <i>20</i>	20 pcs	\$6.00/pcs	\$120.00
Grand Total:										\$120.00

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/7/18 10:15 AM dart.tsimiklis.chrisoula



Certificat de Conformité / Certificate of Compliance

(010084-1)

2455, Rue Halpern | Saint-Laurent | Québec | H4S 1N9
 Tel: 514-335-3666 Fax: 514-335-3868
 www.groupaltech.com

Bon de Livraison / Packing Slip

010084 - 1

Livré à / Ship to

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKESBURY, ON, K6A1K7
 CANADA
 Tel.: 613-632-5200 Fax.:

Client / Customer:

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKESBURY, ON, K6A1K7
 CANADA
 BUYER:

Date expédition Ship date		Créé Par Generated By	Transport / No de Compte Courier / Acc. No.	Bon de commande Client Customer Purchase Order No.				
11-Jun-2018		Aman		040124				
#Ligne Line#	No. de Série / # Pièce Part Number / Line Item Details Job # / Ref #	Description pièce(s)	CATG. U/M	Comm. /Ordered	Exp/ Shipped	Qté NC/ NC Qty	Qté Scrap/	À venir/ Back Order
1	C3-2-1 Rev.	C3-2-1 01 -ANO-BLACK [ANODIZE BLACK] MIL-A-8625F TYPE 2 CLASS 2	ANODIZE CH	20	20	0	0	0

Notes Additionnelles / Additional Notes

Epaisseur réelle
Actual Thickness

Inspecteur Qualité
Quality Inspector

Réçu par
Received By

Nous certifions que les pièces énumérées ci-dessus ont été traitées en conformité avec votre commande et vos spécifications et rencontrent les exigences.
 Notre responsabilité financière et légale ne sera pas supérieure au montant de la facture issue.

We hereby certify that the parts listed above have been process in accordance with your purchase order and specifications and are in conformance with your requirements.
 Our financial and legal responsibility will not be higher than the amount of invoice.